Robots Spur Software That Lends a Hand



Johnson Space Center

Universal Robotics Nashville, Tennessee

NASA Technology

- With the Defense Advanced Research Projects
 Agency (DARPA), Johnson aimed to build a
 humanoid robot—Robonaut 1—to work alongside its
 human counterparts in space
- Johnson wanted to develop software to deliver automatic intelligence and learning in the robot

Partnership

- Dr. Richard Alan Peters, a professor at Vanderbilt, developed learning algorithms for robots, and under a NASA Cooperative Agreement, showed the algorithms could produce learned knowledge
- The work led to patents for Peters, who took the NASA-derived technology to a company called Universal Robotics, where the technology is now available in a product called Neocortex



Benefits

- Neocortex can improve efficiency and worker safety in places like warehousing, mining, handling hazardous waste, and more
- One popular use is for placing, stacking, or removing boxes from pallets or trailers
- It is currently being installed to robotically stack and package meat for a Fortune 500 company

Spinoff 2013 Public Safety